



Sustainable Water-Land Management in Agricultural and Hydrological Systems under Changing Environment

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Message from the Guest Editors

Dear Colleagues,

Agricultural production is essential for human life, and it relies highly on water and land resources, crop growth, soil conditions, and the environment around us. However, agricultural systems are also vulnerable to changing environments, which can have a negative impact on food system sustainability and on the goal of achieving Zero Hunger, one of the Sustainable Development Goals proposed by the FAO. Furthermore, agricultural water management is one of the most important aspects in the water cycle, influencing hydrological processes such as runoff, groundwater storages, etc., while melting water erosion, flooding, and droughts are three major concerns that are easily propagated from hydrological to agricultural systems and threaten their stability by altering water resources quantity, distribution, and allocation. Understanding the changing environment and anthropological activities and developing corresponding measurements is thus critical for the sustainability of agricultural and hydrological systems.





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